

MR1345-727

Serial Number: 10/790,101

Reply to Office Action dated 14 October 2005

AMENDMENTS TO THE CLAIMS

The following Listing of Claims will replace all prior versions, and listing of claims in the Application:

Listing of Claims:

1. (Currently Amended) A speedometer gear output structure comprising:

a gearbox fastened to the front fork of a motorcycle, said gearbox comprising a driven gear rotatable with the wheels of the motorcycle, an output gear meshed with said driven gear, and a receiving chamber corresponding to said output gear, said output gear having a gear shaft, said receiving chamber having an extended circuit board recess portion extending therefrom;

an annular magnetic device mounted on the gear shaft of said output gear for synchronous rotation, said annular magnetic device having at least one magnetic zone; and

a circuit board mounted in the recess portion of said receiving chamber of said gearbox in adjacent relation to said annular magnetic device for directly magnetically coupling said annular magnetic device to said circuit board, said circuit board comprising a sensor facing said annular magnetic device and adapted to output an output signal indicative of speed of rotation of said annular magnetic device and said output gear upon running of the motorcycle, and a signal line extended from said sensor and connected to an electronic speedometer at the

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motorcycle in which said gearbox is installed for transmitting the output signal of said sensor to the electronic speedometer.

2. (Original) The speedometer gear output structure as claimed in claim 1, further comprising an axle bush mounted on said gear shaft of said output gear within said annular magnetic device.

3. (Original) The speedometer gear output structure as claimed in claim 1, further comprising an end cap capped on said gear shaft of said output gear to lock said axle bush and said annular magnetic device to said output gear.

4. (Original) The speedometer gear output structure as claimed in claim 1, further comprising a cover plate fastened to said gearbox to close said receiving chamber.

5. (Original) The speedometer gear output structure as claimed in claim 1, wherein said sensor is a Hall IC.

6. (Original) The speedometer gear output structure as claimed in claim 1, wherein said sensor is a solenoid switch.

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7. (Currently Amended) A speedometer gear output structure comprising:

a gearbox fastened to the front fork of a motorcycle, said gearbox comprising an open chamber, a driven gear rotatable with the wheels of the motorcycle, and a output gear meshed with said driven gear, said output gear having a gear shaft;

a casing fastened to the open chamber of said gearbox, said casing having a stepped receiving open chamber, and a receiving chamber, said receiving chamber having an extended circuit board recess portion extending therefrom;

a transmission shaft suspended in the stepped receiving open chamber of said casing and axially connected to said gear shaft of said output gear for synchronous rotation;

an annular magnetic device mounted on said transmission shaft inside said stepped receiving open chamber of said casing for synchronous rotation with said transmission shaft, said annular magnetic device having at least one magnetic zone; and

a circuit board mounted in the recess portion of said receiving chamber of said casing in adjacent relation to said annular magnetic device for directly magnetically coupling said annular magnetic device to said circuit board, said circuit board comprising a sensor facing said annular magnetic device and adapted to output an output signal indicative of speed of rotation of said annular magnetic device and said output gear upon running of the motorcycle, and a signal

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line extended from said sensor and connected to an electronic speedometer at the motorcycle in which said gearbox is installed for transmitting the output signal of said sensor to the electronic speedometer.

8. (Original) The speedometer gear output structure as claimed in claim 7, wherein said gearbox comprises a screw hole; said casing comprises a countersunk hole fastened to the screw hole of said gearbox with a screw.

9. (Original) The speedometer gear output structure as claimed in claim 7, further comprising an axle bush mounted on said transmission shaft within said annular magnetic device.

10. (Original) The speedometer gear output structure as claimed in claim 7, further comprising an end cap capped on said transmission shaft to lock said axle bush and said annular magnetic device to said transmission shaft.

11. (Original) The speedometer gear output structure as claimed in claim 7, further comprising a cover plate fastened to said casing to close said receiving chamber and said stepped receiving open chamber of said casing.

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12. (Original) The speedometer gear output structure as claimed in claim 7,
wherein said sensor is a Hall IC.

13. (Original) The speedometer gear output structure as claimed in claim 7,
wherein said sensor is a solenoid switch.